

How can I rotate annotated text in ggplot2 with an example?

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"Rotating annotated text in ggplot2 is a useful technique for enhancing data visualizations. This feature allows for the orientation of text labels to be adjusted, making them easier to read and understand. To rotate text in ggplot2, the 'angle' argument can be used within the 'geom_text' function. For example, to rotate the text by 90 degrees, the code 'geom_text(angle = 90)' can be added to the ggplot2 graph. This allows for more flexibility in customizing visualizations and presenting data in a clear and visually appealing manner."

Rotate Annotated Text in ggplot2 (With Example)

You can use the following basic syntax to rotate annotated text in plots in ggplot2:

```
ggplot(df) +  
geom_point(aes(x=x, y=y)) +  
geom_text(aes(x=x, y=y, label=group), hjust=-0.3,  
vjust=-0.1, angle=45)
```

In this particular example we use the angle argument to rotate the annotated text 45 degrees counterclockwise and the hjust and vjust arguments to increase the horizontal and vertical distance of the text from the points in the plot.

The following example shows how to use this syntax in practice.

Example: Rotate Annotated Text in ggplot2

Suppose we have the following dataset in R:

```
#create data frame
```

```
df <- data.frame(player=c('Brad', 'Ty', 'Spencer', 'Luke',  
'Max'),  
points=c(17, 5, 12, 20, 22),  
assists=c(4, 3, 7, 7, 5))
```

```
#view data frame
```

```
df
```

```
player points assists
```

```
1 Brad 17 4
```

```
2 Ty 5 3
```

```
3 Spencer 12 7
```

```
4 Luke 20 7
```

```
5 Max 22 5
```

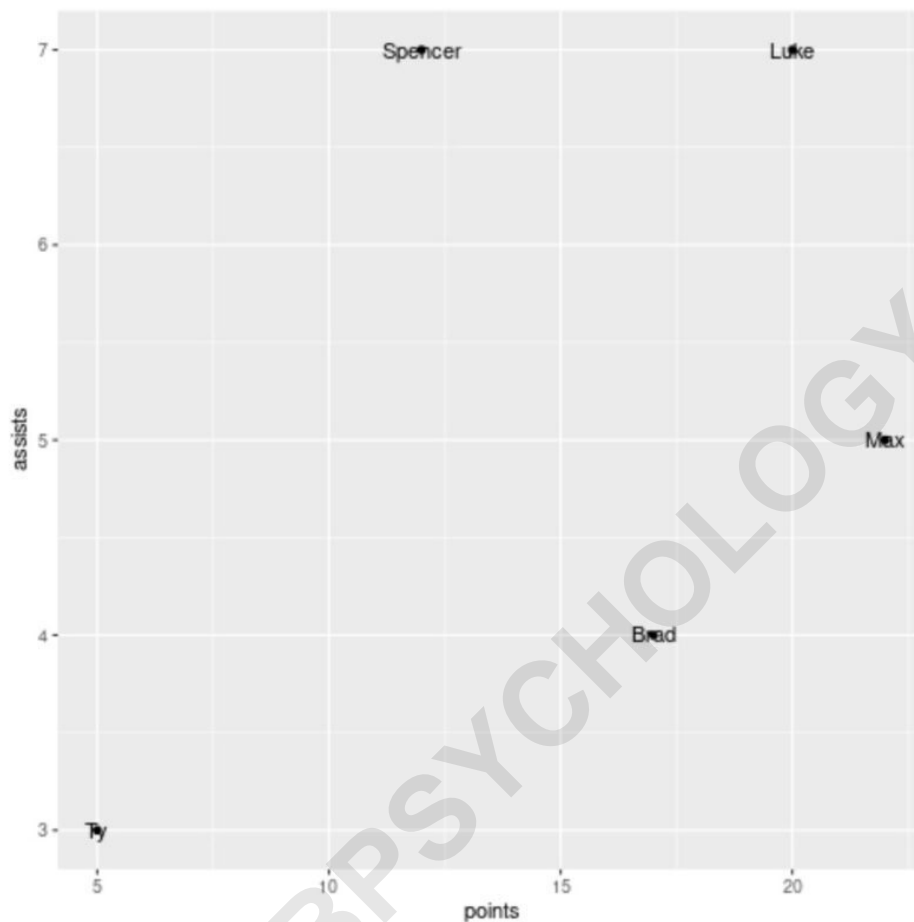
Now suppose we create the following scatter plot in ggplot2 to visualize this data:

```
library(ggplot2)
```

```
#create scatter plot with annotated labels
```

```
ggplot(df) +
```

```
geom_point(aes(x=points, y=assists)) +  
geom_text(aes(x=points, y=assists, label=player))
```



Notice that the labels are horizontal and located directly on top of the points.

We can use the following syntax to rotate the labels and move them slightly further from the points to make them easier to read:

```
library(ggplot2)
```

```
#create scatter plot with annotated rotated labels
```

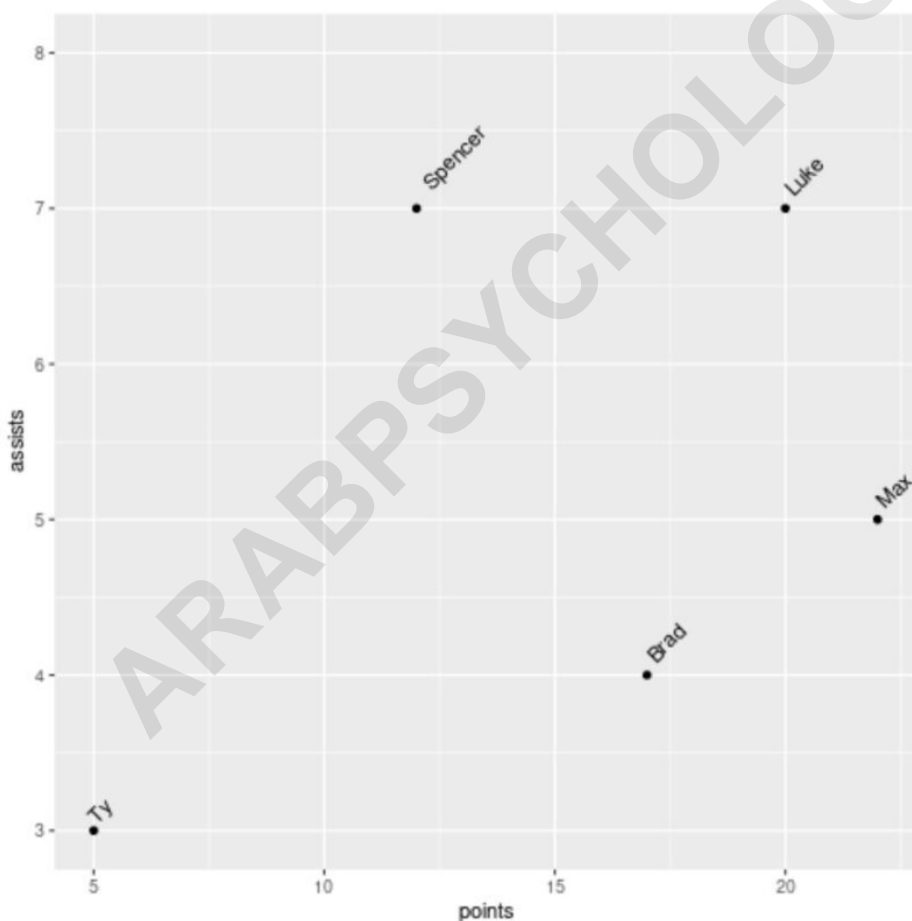
```
ggplot(df) +
```

```
  geom_point(aes(x=points, y=assists)) +
```

```
  geom_text(aes(x=points, y=assists, label=player),
```

```
  hjust=-.3, vjust=-.1, angle=45) +
```

```
  ylim(3, 8)
```



Notice that the labels are now all rotated 45 degrees

counterclockwise.

Feel free to play around with the `hjust`, `vjust`, and `angle` arguments to get your annotated text in whatever position you'd like on the plot.

Note: We also used the `ylim` argument to on the plot so the label "Spencer" at the top of the plot wasn't cut off.

Additional Resources

The following tutorials explain how to perform other common tasks in R: